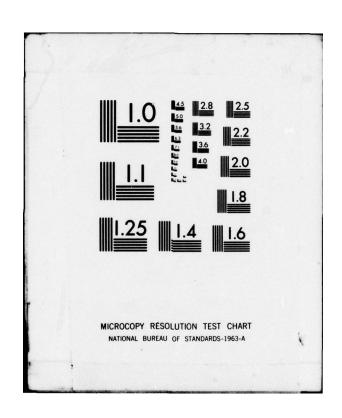
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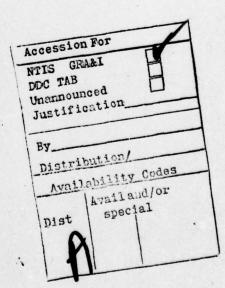
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20. ABSTRACT (Continue en reverse e		
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INTRODUCTION

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

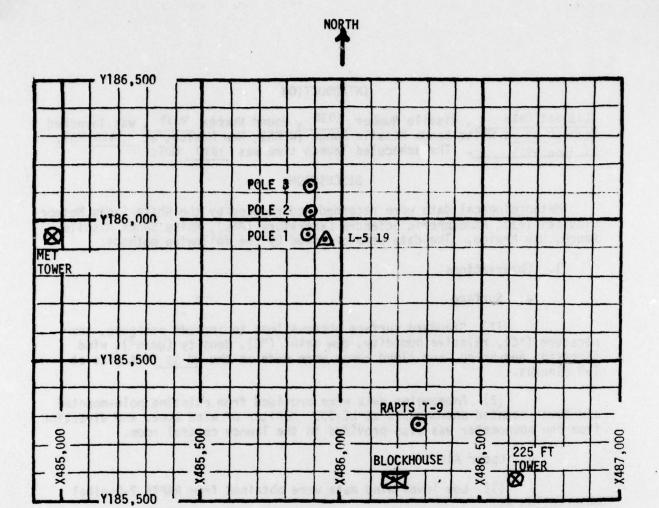
LC-33 1080 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 94,500 feet in 500-feet increments.

SITE AND TIME

Hodge Argumetta Pflot-8allood Trenting System 1-9 Redar

SMR 1345 MST



 MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.

foliaring Not Ster. Jets were collected from

- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATION TAKEN AT LC-33
21 JUNE 1979 AT 1430 MDT, 19305AT GSRS,
MISSILE NO. 1038, ROUND NO. V-39

ELEVATION	3977.30	FT/MSL
PRESSURE	880.9	MBS
TEMPERATURE	35.8	°C
RELATIVE HUMIDITY	21	z
DEW POINT	9.9	•c
DENSITY	983	GM/M ³
WIND SPEED	Calm	MPH
WIND DIRECTION		DEGREES
CLOUD COVER	5	Cu
CLOUD COVER	2	Ci

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1			POLE #2			POLE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR	SPEED
-30	174	7.0	-30	174	4.0	-30	180	9.0
-20	147	7.0	-20	156	4.0	-20	150	11.0
-10	123	6.0	-10	129	4.0	-10	162	6.0
0.0	138	7.0	0.0	146	6.0	0.0	133	6.0
+10	129	6.0	+10	162	2.0	+10	087	4.0

					, Round No.		launched
POLE #1	= X485	,874.29	Y185	,958.90	H4018.74	38.7	ft. AGL
POLE #2	= X485	,874.93	Y186	,012.00	H4033.57	53.0	ft. AGL
POLE #3	= X485	,877.29	Y186	,116.06	H4063.92	83.6	ft. AGL

NOTE:	Wind d	irections	are	referenced	to	the	firing	azimuth	
		True No							

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

١	EVEL #1 12 ft.			LEVEL #2 62 ft.	0.0
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	111	06.0	-30	105	06.0
-20	090	07.0	-20	120	08.0
-10	118	08.0	-10	113	08.0
0.0	129	08.0	0.0	097	08.0
+10	108	08.0	+10	110	10.0
L	EVEL #3 102 ft.	000		LEVEL #4 202 ft.	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH
-30	118	07.0	-30	118	. 08.0
-20	135	09.0	-20	129	07.0
-10	126	08.0	-10	132	09.0
0.0	117	08.0	0.0	114	09.0
+10	127	10.0	+10	104	10.0

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	000	000
30	040	00.5
60	079	01.0
90	119	01.5
120	158	02.0
150	159	04.5
180	160	07.0
210	161	09.5
240	162	11.5
270	165	11.5
300	167	11.5
330	169	11.5
360	171	11.0

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
390	161	10.0
420	151	08.5
450	141	07.5
480	130	06.0
510	129	06.0
540	127	06.0
570	126	06.0
600	124	05.5
630	132	05.5
660	140	05.5
690	148	05.5
720	156	05.0
750	161	05.5

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 H3977.30

Released from LC-33 on 21 June 1979 at 1430 MDT.

Type 19305AT GSRS , Missile No. 1038 , Round No. V-39 launched from LG-33 on 21 June 1979 at 1430 MDT .

NOTE: Wind directions are referenced to the firing azimuth or true north True North.

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	166	06.0
810	171	06.5
840	175	06.5
870	178	07.0
900	181	07.0
930	184	07.0
960	187	07.0
990	193	07.5
1020	198	07.5
1050	203	07.5
1080	208	07.5
1110		
1140	***	467.63
1170		
1200	A	
1230		
1260		Ava are
1290		
1320		
1350	- 6	
1380	46	
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		3.5
1470		
1500		
1530		
1560		
1590		
1620		
1650		
1680		
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STATION ALTITUDE 3997.30 FEET MSL 21 JUNE 79 1345 HRS MST ASCENSION NO: 199

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STATION ALITUDE 3997.30 FEET MSL 21 JUNE 79 1345 HRS MST ASCENSION NO. 1.99

MAN OF CHARLEST AND ASSESSED.

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

	GEGMETRIC ALTITUDE MSL FEET	PRESSUKE MILLIBAKS	TEMF AIR DEGREES	TEMPERATURE R DEMPOINT EES CENTIORADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SP DEGREES(IN) KN	SPEED KNOTS	INDEX OF REFRACTION
	23500.0	427.5	-14.8	-33.2	19.0	576.2	62	211.2	14.5	1.000130
	t	419.0	-15.9	-34.0	19.3	. 567.3		218.1	15.5	1.000128
	c4500.0	. 410.7	-17.1	-34.8	19.6	556.6	0,0	222-1	14.3	1.000126
		4020#	-18.2	2000	15.3	3.033		255.2	12.3	1.006124
		364.4	-19.6	-36.6	20.2	541.7		231.9	6.0	1.000122
	0.00000	380.4	-21.0	-27.6	20.6	533.0			8.4	.00012
	25500.6	378.5	-22-4	-38.6	50.9	525.7	617.0	250.2	8.6	1.000118
	27000.0	370.8	-23.5		42.2	517.2		272.4	12.4	1.000118
	27500-9	363.2	-23.5	-32.5	43.4	506.7		270.3	16.8	1.000115
	200000 m	355.7	-23.9		26.7	497.0		276.6	21.3	1.000112
	26500.0	548.3	-24.8	-40.8	20.8	488.4		274.8	22.6	1.000110
	2900000	341.0	-25.9		50.4	460.3		2.272	23.6	1.000108
	29500.0	333.8	-27.0		20.0	4-214		208.7	24.5	1.000106
	200000	356.9	-28.1	-44.2	19.6	464.7		268.0	26.1	1.000164
		320.0	-29.3		19.5	457.0		267.9	27.8	1.000102
10		313.3	-30.4	-46.5	18.8	449.5	607.0	266.1	29.5	1:000101
	31500.0	206.7	-31.5	-47.6	16.4	442.2		267.5	31.4	1.000099
	32000.0	300.3	-32.6	-48.8	18.0	434.9		205.8	33.5	1.000097
	32500.0	293.8	-33.9	-20.9	12.9**	427.8	-	265.0	35.4	1.000096
	33000.0	587.4	-35.2	-53.2	13.7**	420.7		205.6	36.9	1.000094
	0.00555	281.1	-36.5	-55.7	11.6**	413.8		20001	38.0	1.000092
	0.00000	475.0	-37.8		***	407.0	9.793	560.6	38.5	1.000001
	34500.0	569.0	-39.1	-61.5	•	400.3	77.7	205.7	38.8	1.000089
	35000.0	263.1	4.04-	-65.1	2.0**	393.8		203.7	39.1	1.000038
	55500.0	257.4	-41.7		2.9**	387.4	295.7	201.9	39.1	1.000086
	300000	251.7	-43.0	-80.1	**/-	381.0	267.0	200.1	39.3	1.0000085
	36500.0	240.1	2.44-			374.5		260.1	40.8	1.000063
	3.0000	5.052	-45.4			367.9		200.4	42.3	1.000082
	0.00016	50400	-40.1			351.4		[•107·	43.6	1.000060
	2200000	429.0	6-24-			355.0		264.0	45.6	1.000079
	0.00000	224.3	-49.1			348.8		263.0	41.1	1.000078
	0.00060	219.5	-50.3			345.0		273.4	40.4	1.000076
	39590.0	214.2	-51.5			336.6		2.673	40.3	1.000075
	4000000	208.3	-52.7			330.7	578.4	281.1	41.5	1.000074
	40500.0	504.5	-53.9			10		201.5	43.1	1.000072
		8.661	-52.5			319.3		281.0	7.77	1.000071
	41500.0	195.0	-55.4			313.5	573.5	279.9	45.4	1.000070
	45000.0	190.4	-57.7			307.9		679.0	46.2	1.000059
	4<50.0.0	165.9	-59.0			302.4	57	2.002	46.7	1 0000057
	#3000.0	181.4	-60.3			257.0	560.4	20001	47.0	1.000006

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

21 21 25	STATION ALI	.TITUDE	3997.30 FEE 1345 HRS	ET MSL MS1		1720050159 S m R	C Th		6ECDETIC 32.41 106.4	DETIC COORDINATES 32.48034 LAT LEG 106.42307 LON DEG
A P P P P P P P P P P P P P P P P P P P	GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	TEMPI AIR DEGREES	DEENTURE DEENTOANT CENTIGRADE	REL.HUM. PERCENT	DENSITY GN/CUBIC METER	SPEED OF SOUND ANO (S	WIND DATA DIRECTION S DEGREES(IN) K	SPEED KNOTS	INDEX OF REFRACTION
	43500.0	17	-61.5			291.5		279.3	47.1	•
	0.00004		-62.2			285.4	565.	277.9	46.7	1.000064
		16	-65.9			279.4	564.9	275.5	45.5	1.000062
		16	-63.4			213.2	564.4	274.1	43.8	1.000061
	45500.0	16	-63.6			566.9	563.9	274.7	41.2	1.000059
	46000.0	15	-63.9			260.6	503.6	274.4	8.04	•
	9.00004	15	-64.1			254.6	563.4	272.7	44.3	.00005
	9-00024		-64.5			246.6	562.7	271.4		•
	47500.0		-65.2			243.4	So1.8	270.4		
	490000.0		-62.9			236.2	560.8	269.3	37.0	
	9.03904					233.1	559.6	269.6	29.7	1.000052
	0.00064		-67.4			220.5	558.8	270-7	21.9	•
	0.00564		-68.1			223.3		569.0	17.3	-00005
	200000		-68.8			210.5		263.2	16.2	
	50500.0		9.69-			213.9		256.1	LD.	•
	0.00010		-69.8			203-7	555.5	545.6	15.0	1.000046
	51500.0		-70.0			203.7		235.0	15.2	
	25000.0		-70.2			198.8		239.2	16.6	•
	0.06536		-70.5			194.0	554.0	244.5		
	2200000		-70.7			189.3	554.3	249.0	18.0	•
	55500.0		6-04-			184.7	554.11	254.4	15.7	1.000041
	24000.0		-71.1			180.2	553.7	261.0	13.4	•
	24500.0		-71-3			175.9	553.4	258.0	9.3	1.000039
	55000.0		-71.5			171.6	553.2	250.5	5.3	1.000038
	0.00500		-71.04			167.2	555.5	536.9	5.6	1.000037
	0.00000		-71.4			162.9	555.4	168.4	1.0	
	20230.0		-71.3			158.8	555.4	109.8	1.6	1.000035
	0.00075		-70.9			154.5	554.0	104.5	1.1	
	57500.0		-70.0			150.0	555.2	99.1	9.	
	58000.0		2.69-			145.6	£20.4	226.7	.5	
	29200.6		-68.3			141.4	557.0	237.5	1.8	
	0.00060		-07.4			137.3	558.8	233.2	5.6	1.000031
	29500.0	7	-56.5			133.4	560.0	181.9	1.9	.0000
	600000		-65.59-			129.5	561.4	1.57.7	2.9	
	£0200.0	7	1.49-			125.8	562.4	121.2	4.7	-00002
	0100000	,	-03.9			122.1	563.6	114.0	6.7	.00002
	0.00010	,	-63.0			116.6	504.8	1111.1	8.0	
	0.00020	d)	-62.2			115.3	2	112.3		.0000
	0.00070	.)	-05.			1.211	505.9	113.7	6.3	1.000025
	63030.0	O	-62.1			5	566.0	110.1		.00002

UPPER AIR DATA

STATION ALTITUDE 21 JUNE 79 ASCENSION NO. 1	•	3997.30 FEET MSL 1345 HRS MST		UPPER AIR DATA 1720960199 S M R	547 A		SEODETI 32. 106.	SEODETIC COORDINATES S2.48034 LAT DEG 106.42307 LON DEG
GEUMETHIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GW/CUBIC WETER	SPEED OF SCUND KNOTS	#IND DATA DIRECTION SP DEGREES(TW) KN	SPEED KNOTS	INDEX OF REFRACTION
63330.0	6.40	-62.0		107.6	560.2	103.3	2.6	
0.00000	2	-61.5		104.2		96.1	5.5	-00005
0.00540	61.9	-51.0		101.5		9.+6	6.9	1.000023
0.00000	2.00	-00.0		20.0		1.00%	4.8	1.000022
0.00000		0		3.96		8-16	10.3	N
5000000	56.1	-20.0		93.7		88.88	13.2	1.000021
		-58.5		7. To	1.076	00.00	17.1	1.000020
		-58.0		86.5		200	17.4	20000
0.00099	•	-57.5		84.3		63.9	17.3	10000
69500.0		-57.0		82.1		63.5	17.0	1.000018
0.00069		-56.6		80.0		83.4	16.7	
		-55.5		78.1		65.3	16.4	1.000017
		-56.4		76.2		62.0	17.8	1.000017
	6.00	-56.3		4.4.		81.9	19.4	.00001
71500.0		200-		9.37		5.19	20.9	1.000016
	113.1	1.00-		6.07		3.00	21.9	1.000016
72500-6	42.1	-55.0		67.5	1014.1	4.03	24.50	1.000015
	41.1	-55.8		65.4		20.67	24.1	1.00001
	40.1	-55.7		64.3		7.67	24.6	1.000014
	39.5	-55.7		62.8		79.3	24.5	1.000014
74500.0		-55.6		61.3	574.7	78.7	23.8	1.000014
75000.0		-55.5		29.6		78.0	23.0	1.000013
15500.0		-55.4		4.35		78.1	24.2	1.000013
7:5000.0	30.0	200		57.0		70.4	26.1	100000
77000	24.0	154.7		n		9.9/	27.9	1.000012
775.00.6	24.5	1010		7.65		1.50	0.62	1.000012
780000		3 15		2.5	27:00	0.00	2005	2100001
				1 0		6.00	100	1100001
		-51.9		0.00	270	1.36	9.00	1.00001
	30.5	1013-		3 6		0.80	. 00	10000
300000		-50.7				4.7.6	20.7	
		6.64-		is	580	95.1	30.5	.0000
	28.2	-49.1		*)		94.6	30.6	.0000
		1-8-1		42.9	563.0	45.4	31.6	1.000010
		9.94-		41.6	533.0	1.06	32.7	1.000009
65260-0	26.3	-44.5		BO.3	-	4006	33.7	1.000009
83660.6		p.07-		39.9	. 0	93.5	34.3	1.060009

ETIC COORDINATES 32.48034 LAT DEG 06.42307 LON DEG	INDEX OF REFRACTION	1.000000	1.000008	1.0000008	1.000008	1.000008	1.000000	1.000008	1.000001	1.000007	1.000007	1.000007	1.000007	1.000007	1.000006	1.000006	1.000006	1.000066	1.000006	1.000006	1.000046	1.000005	1.00000
GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG	VOTS	34.9	35.4	34.9	34.0	33.2	31.4	29.3	27.1	25.3	24.2	23.5	23.0	22.4	21.9	21.5	21.8	22.3	22.8				
	MIND DATA DIRECTION SI DEGREES(TW) KI	100.4	102.2	104.1	1.501	103.2	108.4	107.5	100.5	102.2	6.46	87.1	80.2	75.6	7.07	9.59	63.1	61.3	59.0				
94TA	SPEED OF SOUND ANOTS L	584.3	584.4	584.6	564.7	564.9	565.1	585.2	555.4	585.5	585.7	565.9	536.2	580.5	580.9	587.2	587.5	567.9	560.6	589.5	580.9	5.9.2	5.00.5
UFPER AIR DAT 1720060159 S M R	DENSITY S GM/CUSIC METER	39.0	38.1	37.2	2002	35.5	34.7	33.9	33.1	32.3	31.6	30.0	30.1	29.4	23.7	28.0	27.4	26.7	26.1	25.5	24.3	24.3	23.7
Ö "	PERCENT (1															
T MSL MST	PERATURE DEWPOINT CENTIGRADE																						
3997.30 FEET MSL 1345 HRS MST	TEMPERATURE AIR DEWPOIN	-48.2	-48.1	-48.0	14-1-11	1-47-7	-47.6	-47.5	4.7.4	-47.2	-47.1	J-41-	1-95-	-45.5	-46.2	0.04-	-45.7	4.54-	-45.2	6.++-	2.44-	4.44-	-44.2
31	PRESSURE WILLIUAMS	25.2	24.6	54.0	23.5	23.0	55.4	51.9	21.4	50.9	50.5	20.0	15.6	19.1	1001	16.3	17.9	17.5	17.1	10.1	16.3	15.6	15.6
STATION ALTITUDE 21 JUNE 79 ASCENSION 40: 1	GEONETRIC ALTITUDE ASL FEET B	0.00000	0.000+9	0.009+0	0.00000	0.00350	9.000000	0.00000	0.00010	0.000/0	0.00000	0.00gpq	0.00060	99200968	6000006	90500.0	6-00014	9-00316	35000F	74500.0	93000.0	93500.0	6.00046

MAN SIGNIFICANT LLVEL DATA	ش کا ۵
STATION ALTITUDE 3997.30 FEET MSL	21 JUNE 79 1345 HRS MST ASCENSION 40: 199

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

JEG (TN)	SPEED NPS NPS 8999.**	DATA N-S MPS **•9999-	# S O O O O	DEW PT DEN	TEMPERATUR AIR DEG C	PRESSURE MILLIBARS
87.	12.				-47.0	2.000+1
95.	16.		-10.	66	-48.8	2.800+1
.06	15.	ċ	-15.		-51.2	3.000+1
78.	13.	-3.	-13.		-55.3	3.580+1
63.	.6	-;-	.5-		-56.6	5.000+1
. 40	'n	1.	-5-		-62.0	6.500+1
12.		1.	-5-		-62.2	7.000+1
67.	1.	•0	-1.		-71.3	9.060+1
53.	.5.	1.			-71.5	1.000+2

** WIND DATA NOT CUMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

ITES	DEG	DEG
DINA	LAT	LOS
IC COORDINATES	32-48U34 LAT DEG	42307
GEODETIC	32.	106

	ייייי יייייייייייייייייייייייייייייייי	ATR	TATOCA SO	DEDCENT.	DIDECTION	CPFF
MILLIBARS	FEET	DESREES CENTIONA	CENT 16RADE		DEGREES (TN) KNOTS	KNO
850.0	5009	31.3	10.6	23.	166.3	12.0
800.0	6779.	26.5	4.8	32.	177.9	8.5
759.0	8623.	21.1	6.4	35.	207.1	1.8
700.0	19550.	:5.5	2.1	:;	202.0	2.7
650.0	12611.	10.0	3.	52.	212.2	0.1
0.009	14769.	3.2	-10.0	37.	276.1	3.6
550.0	17050.		4.6-	58.	251.9	9.0
500.0	19523.	-7.0	-17.4	43.	210.9	4.0
450.0	22195.	-11.3	-31.1	16.	163.3	11.3
0.604	25115.	-18.6	-35.9	50.	22.7.6	11.6
350.0	28335.	-24.5	-40.5	21.	275.3	22.3
300.0	31959.	-32.7	-48.6	18.	265.8	33.5
0.053	36.073.	-43.4			260.1	39.7
200.0	40879.	-55.1			281.1	44.3
175.0	43632.	-61.9			278.3	47.1
150.0	46739.	-64.3			271.7	40.8
125.0	50352.	9-69-			250.7	15.3
100.0	54697.	-71.5			253.9	9.9
90.08	59051	6.99-			215.5	2.1
70.07	61727.	-62.2			112.0	7.3
0.00	04851.	4-09-			93.6	9.8
20.05	. 27000	0.00-			65.5	16.8
40.0	73275.	-55.7			7.67	24.7
30.0	79330.	-51.2			4.86	59.4
25.0	43256.	-48.2			100.7	35.0
20.0	68093.	0-44-			87.0	23.5
15.0	64301	-43.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE KAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES	32-44034 LAT DEG 106-42307 LON DEG
MRN MANDATORY LEVELS 1720060199	¥ 5 0
STATION ALTITUDE 3497.30 FEET MSL	21 JUNE 79 1545 HRS MST ASCENSION NO: 199

9999.** 18.	SCUPOTENTIAL ALTITUDE DECAMETENS	DIRECTION DEG (TN)	SPEED NIND DATA	DATA N-S MPS	₩. 10° 8° N	DEN PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS	
101. 12112. 99 -47.0 101. 18. 316. 99 -47.0 80. 13216. 99 -48.2 80. 13216. 99 -56.6 94. 4. 1029. 99 -60.4 112. 4. 103. 99 -60.4 1131. 103. 99 -60.4 272. 274. 3. 1. 27. 24. 99 -66.9 272. 272. 244. 24. 99 -66.9 273. 273. 4. 27. 24. 99 -66.9 274. 276. 276. 276. 4. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	2377.	***6666	***6666	***6066-	*******	66	-43.7	1.500+1	
101. 18. 310. 99 83. 99. 15210. 99 94. 15210. 99 94. 15210. 99 112. 4. 4. 0. 15. 99 112. 4. 1. 1. 1. 0. 0. 99 125. 244. 24. 99 126. 27. 244. 24. 99 127. 284. 24. 99 128. 6. 4. 4. 17. 1022. 24. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 12. 25. 25. 25. 25. 25. 25. 25. 25. 25. 2	2085.	68.	12.	-1-	-12.	66	0.74-	2.000+1	
98. 15. 215. 99 63. 94. 15215. 99 63. 94. 4. 0. 04. 99 63. 94. 4. 0. 05. 99 65.6 63. 94. 4. 0. 05. 99 65.6 62.7 62.7 62.7 62.7 62.7 62.7 62.7 62	2538.	101.	18.	·°°	-10.	66	-48.2	2.500+1	
80. 13212. 99 -55.7 112. 4. 4. 0. 04. 99 -66.9 215. 11. 1. 1. 1. 2. 99 -66.9 272. 273. 244. 24. 999 -66.9 273. 2744. 24. 999 -66.9 280. 275. 17. 1. 17. 10 -55.1 280. 280. 6. 4. 4. 17. 10 -57.0 276. 280. 6. 4. 4. 17. 10 -57.0 276. 280. 6. 4. 4. 17. 10 -57.0 276. 280. 6. 4. 4. 17. 10 -57.0 276. 280. 6. 4. 4. 17. 10 -57.0 276. 280. 6. 4. 4. 17. 10 -57.0 277. 10 10 -7.0 280. 10 10.0	2416.	.86	15.	2.	-12.	66	-51.2	3.000+1	
63. 4. 4. 619. 99 -56.6 215. 1. 1. 13. 99 -66.9 225. 2. 24. 3. 1. 2. 6. 99 -66.9 272. 279. 279. 279. 279. 279. 279. 279.	2233.	80.	13.	-2.	-12.	66	-55.7	4.000+1	
215. 4. 4. 04. 99 -60.4 215. 1. 1. 1. 5. 99 -60.4 227. 2841. 5. 99 -66.9 272. 273. 244. 24. 99 -61.9 281. 2854. 24. 99 -61.9 281. 286. 17. 1. 17. 10 -24.5 288. 6. 6. 6. 6. 6. 6. 17. 18. 19 -11.6 281. 288. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	2092.	63.	.6	-1.	-6-	66	-56.6	5.000+1	
112.	1977.	94.	4.	.0	;	66	1.09-	0.000+1	
215. 1. 1. 1. 599 -66.9 257. 8. 2. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1881.	112.	4.	1.	.:-	66	-62.2	7.000+1	
254. 3. 1. 5. 69 -71.5 272. 24. 99 -69.6 273. 24. 24. 99 -64.3 281. 234. 24. 99 -61.9 280. 20. 4. 22. 99 -61.9 286. 17. 1. 17. 10 -24.5 276. 25. 4. 4. 4. 17. 10 -7.0 276. 25. 4. 4. 10 -7.0 276. 276. 2. 2. 2. 10 -7.0 276. 28. 6. 6. 6. 6. 11. 12. 13. 15.2 277. 1. 10 10.0 287. 288. 6. 6. 6. 6. 11. 12. 13. 15.2 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 7. 10 10.0 288. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1600.	215.	1.	1.	1.	66	6-99-	8.000+1	
257. 24. 5. 6. 64.3 272. 241. 24. 99 -64.3 2734. 24. 99 -64.3 260. 20. 4. 22. 99 -64.3 266. 17. 1. 17. 10 -55.1 278. 6. 4. 4. 17. 10 -24.5 276. 25. 4. 10 -7.0 276. 20. 2. 10 -7.0 277. 1. 10 10.0 278. 6. 6. 6. 7. 10 -7.0 278. 276. 20. 2. 10 10.0 279. 270. 2. 2. 10 10.0 270. 10 10.0 270. 6. 6. 6. 6. 13 15.2 271. 178. 5. 5. 5. 5. 5. 2. 21.3 272. 273. 33. 33. 33. 33. 33. 33. 33. 33. 33.	1067.	254.	3.	1.	;	65	-71.5	1.000+2	
272. 241. 24. 99 -64.3 281. 234. 24. 99 -61.9 281. 2824. 24. 99 -61.9 286. 17. 1. 17. 10 -32.7 275. 111. 17. 10 -32.7 278. 6. 4. 4. 17. 10 -24.5 288. 6. 6. 4. 4. 17. 10 -24.5 288. 6. 6. 6. 17. 10 -24.5 288. 6. 6. 6. 17. 10 -22.2 288. 7. 6. 6. 6. 10 -22.2 288. 7. 6. 6. 6. 10 -22.2 288. 8. 6. 6. 6. 10 -22.2 288. 8. 6. 6. 6. 10 -22.2 288. 99 -64.3 288. 6. 6. 6. 6. 10 -22.2 288. 7. 10 -22.2 288. 8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1535.	257.	8.		٥.	66	9.69-	1.250+2	
279. 244. 24. 99 -61.9 261. 25. 4. 4. 24. 99 -61.9 266. 17. 1. 17. 10 -32.7 275. 111. 17. 10 -32.7 275. 6. 4. 4. 17. 10 -24.5 218. 6. 6. 6. 1. 19 -11.8 218. 25. 4. 10 -2.2 276. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	1455.	272.	24.	-1-	. 4.7	66	-64.3	1.500+2	
281. 234. 22. 99 -55.1 260. 20. 4. 20. 99 -43.4 260. 17. 1. 17. 10 -32.7 275. 111. 17. 10 -24.5 288. 6. 4. 4. 17. 19 -11.8 210. 25. 4. 10 19 -11.8 276. 2. 4. 10 -2.2 276. 2. 20. 2. 10 10.0 203. 3. 3. 3. 2. 10 15.2 207. 1. 10 10.0 208. 5. 50. 18 26.5 210. 6. 6. 6. 62. 21.3 213. 15.2	1536.	279.	24.	-4-	24.	66	-61.9	1.750+2	
260. 20. 4. 20. 99 -43.4 266. 17. 1. 17. 10 -32.7 275. 11. 11. 10 -24.5 228. 6. 4. 4. 17 19 -11.6 211. 5. 4. 10 -7.0 276. 2. 7. 4. 10 -7.0 276. 2. 7. 2. 10 10.0 277. 2. 2. 10 10.0 278. 20. 10 10.0 279. 20. 10 10.0 270. 10 10.0 270. 10 10.0 270. 10 10.0 270. 20.1 270	1240.	281.	23.	. 7	.77	66	-55.1	2.000+2	
256. 17. 1. 17. 10 -32.7 275. 151. 15. 16 -24.5 228. 6. 4. 17 19 -11.6 211. 5. 4. 2. 10 -7.0 252. 4. 1. 4. 2. 10 -7.0 252. 2. 2. 10 -7.0 212. 3. 3. 3. 2. 2. 10 10.0 203. 3. 3. 3. 1. 13 15.2 207. 1. 1. 0. 18 26.5 266. 6. 6. 6. 2. 21.1	1100.	260.	20.		20.	66	-43.4	2.500+2	
275. 111. 1624.5 228. 6. 4. 4. 17 -18.6 211. 5. 4. 17 -18.6 212. 25. 4. 10 -7.0 276. 20. 2. 10 10.0 203. 3. 3. 3. 3. 10 10.0 207. 10 10.0 207. 10 10.0 207. 10 10.0 207. 207. 207. 207. 207. 207. 207. 207.	974.	266.	17.	1.	17.	10	-32.7	3.000+2	
228. 6. 4. 4. 17 -18.6 188. 6. 6. 1. 19 -11.8 211. 5. 4. 2. 10 -7.0 252. 4. 4. 07 -2.2 276. 2. 2. 2. 13 3.2 203. 3. 3. 2. 10 10.0 203. 3. 3. 3. 1. 13 15.2 178. 5. 6. 6. 6. 21.3	. +96	275.	11.	-1:	11.	7.0	-24.5	3.500+2	
188. 6. 6. 1. 19 -11.8 21. 5. 4. 2. 10 -7.0 252. 4. 10 -7.0 276. 2. 70 2. 2. 13 3.2 212. 3. 3. 2. 10 10.0 203. 3. 3. 3. 1. 15.2 207. 1. 1. 0. 18 26.5 150. 6. 6. 6. 2. 21 31.3	766.	228.	•9	. †	• +	17	-18.6	4.000.4	
252. 4. 1. 2. 10 -7.0 252. 4. 1. 4. 07 -2.2 276. 20. 2. 13 10.0 203. 3. 3. 1. 13 15.2 207. 1. 1. 0. 18 26.5 160. 6. 6. 62. 21 31.3	076.	188.	• •	• 9	7.	19	-11.8	4.500+2	
252. 4. 1. 4. 07 -2.2 276. 2. 3. 2. 13 3.2 203. 3. 3. 1. 13 15.2 207. 1. 1. 0. 16 25.1 178. 5. 6. 6. 6. 21.3	595.	211.		• 4	.2	1.0	-7.0	5.000+2	
212. 2. 13 3.2 212. 3. 3. 2. 10 10.0 203. 3. 3. 1. 13 15.2 207. 1. 1. 0. 16 21.1 178. 5. 50. 18 26.5 160. 6. 62. 21 31.3	520.	252.	.,	1.	.4	07	-2.2	5.500+2	
203. 3. 3. 1. 13 15.2 203. 3. 3. 1. 13 15.2 207. 1. 1. 0. 16 21.1 178. 5. 50. 18 26.5 160. 6. 62. 21 31.3	450.	276.	2.	-0-	.;	13	3.5	6.000+2	
203. 3. 3. 1. 13 15.2 207. 1. 1. 0. 16 21.1 178. 5. 50. 18 26.5 160. 6. 62. 21 31.3	284.	212.	3.		٠.	10	10.0	6.500+2	
207. 1. 1. 0. 16 21.1 178. 5. 50. 18 26.5 160. 6. 62. 21 31.3	322.	203.	3.			13	15.2	7.000+2	
178. 5. 50. 18 26.5 160. 6. 62. 21 31.3	263.	207.	1:	1.	0.	10	21.1	7.500+2	
160. 6. 62. 21 31:3	207.	178.	5.	.5.	.0-	18	26.5	8.000+2	
	153.	160.	.0	.9	-,-	21	31.3	8.500+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.